

MAGNETIC COUPLING PUMP

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Abstract

PROBLEM TO BE SOLVED: To prevent a pump lock condition by foreign matter, composed of magnetic material, mixed in a fluid.

SOLUTION: An impeller consisting of non-magnetic material is secured to a tip end of a rotary shaft 21, and a rotor magnet 23 is secured to a reverse surface of the impeller. An NS magnetized surface 23a of the rotor magnet 23 is opposed to a partition 4 with a fine air gap provided. A recessed part 22b, for adsorptively perceiving foreign matter composed of magnetic material to be mixed in a fluid by magnetic attractive force of the rotor magnet 23, is formed in the impeller from an obverse side toward a reverse side, and the rotor magnet 23 is partially exposed by the recessed part 22b.

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